510(k) Summary for Larsen & Toubro Limited SENORITA Colour Doppler Ultrasound System

1. Sponsor

Larsen & Toubro Limited Medical Equipment & Systems SBU KIADB Industrial Area Hebbal, Hootagalli Mysore - 570018 Karnataka, INDIA

Contact Person:

Mr. A. B. Deshpande

Head - Quality Assurance & Customer Support

Medical Equipment & Systems Larsen & Toubro Limited Phone: 011-91-821-402561 Fax: 011-91-821-2402468

E-mail: DeshpandeAB@myw.ltindia.com

Date Prepared:

November 20, 2003

2. DEVICE NAME

Proprietary Name:

Larsen & Toubro Limited SENORITA Colour

Doppler Ultrasound System

Common/Usual Name:

Ultrasound System and Transducers

Classification Name:

Ultrasonic Pulsed Doppler Imaging System

(21 CFR 892.1550, 90 IYN)

Ultrasonic Pulsed Echo Imaging System

(21 CFR 892.1560, 90 IYO)

Diagnostic Ultrasound Transducer

(21 CFR 892.1570, 90-ITX)

3. Predicate Devices

TETRAD 2300 E/U Ultrasound Imaging System with Color Flow Doppler Imaging (K946277), and Acuson Aspen System (K991805).

4. INTENDED USE

The Larsen & Toubro Limited SENORITA Colour Doppler Ultrasound System is intended for diagnostic ultrasound imaging or fluid flow analysis

of the human body; specific indications for use a tabulated in Section 4.3 of this submission.

5. DEVICE DESCRIPTION

Technical specifications for the Larsen & Toubro Limited SENORITA Colour Doppler Ultrasound System are as follows:

System Specifications

Type of protection against

electric shocks

Class I

Degree of protection against

electric shock

for ultrasound probes For ECG electrodes Type "BF" Type 'CF"

Degree of protection against

hazard of explosion

Not protected

Degree of protections against

ingress of liquids

IPXO

Power Requirements

AC input

110 V AC

60 Hz single phase

Fuse

Two (2) 12A, slow blow, glass cartridge fuses

in Line and Neutral

Load

Total: 1000A (System: 850 VA,

Aux. Output: 150 VA)

Leakage

<145µA as per UL2601

General Specifications

Dimensions

 $1400 \text{mm}(H) \times 620 \text{mm}(W) \times 800 \text{mm}(D)$

Weight

120kg/270 lbs. (approximate)

Keyboard console rotation

Rotation of console

Keyboard +/- 30°

Monitor tilt

+/-30

External Ports FDD

CDRW

Parallel port-inkjet printer

USB port (rear panel) Laser printer RJ45 (LAN) port – Networking VGA port-SVGA monitor (slave)

DIN Port-Footswitch

Audio Port (real panel) Relay out Audio port (front panel) Headphone USB port (front panel) Thumb Drive Auxiliary power – additional Monitor

Monitor 15" SVGA monitor Size of image 512 x 512 pixels Operating temperature 10°C to 35°C

Operating temperature 10°C to 3 Humidity 80% RH

Safety The product shall comply to the Safety

Standards as per IEC 60601

Language English

Technical Specifications

Operating System Windows 2000

Probe Connectors Two (2) ITT Cannon DL 156 connectors

Options Colour Doppler

PW Spectral Doppler

Gain Overall gain controls for B & M modes

(combined)

D mode (Pulsed Doppler) C mode (Colour Doppler)

P mode (Power/amplitude Doppler)

Power Acoustic power control

TGC Eight (8) slide switches for eight (8) depths

Image Processing

General Focus

Multifocus

Dynamic Range

Sensitivity Persistence

Temporal averaging Pre-processing

Tissue discrimination

Colour maps Thresholding Flash Suppression Edge Enhancement 2s, 4s, and 8s

M mode speed D mode speed Image Memory Size

2s, 4s, and 8s $512 \times 512 \times 8$ bits

Grey Scale

256 levels

Image Specifications

Array types

Linear

Curved Linear

Maximum array size

128 elements

Maximum symmetric aperture

48 elements

Scan conversion

PCI card color

(8 bit grayscale output with 256 shades)

Display

24 bit color

Selectable gray maps

Imaging resolution

(Best case, measured in water, assuming f/2

for lateral resolution measurement) Axial Lateral Freq. 1 mm 1.025 mm 0.65 mm 0.75 mm 1.025 mm 3 MHz 5 MHz

7.5 MHz

0.41

 $0.49 \, \mathrm{mm}$

Magnification

Magnification factors: 1.5, 1.8, 2.0 real time

images

Image orientation

Horizontal (left/right) and

Vertical (up/down) inversion of image

Probes supported

Standard Abdominal

Endovaginal

Tightly curved Cardiovascular

Vascular

Multi-Frequency

Supported on all probes

Center Frequency

3.0 –12.0 MHz (20 MHz upper band edge)

Transmit Focus

Multi-zones, 1 to 8 zones, interleaved

Received focus methods

Dynamic

Updated every 1.5 mm in depth Errors ≤ 10° in the 3 to 12 MHz range

Envelope delays switched between transmit

Transmit focus increment – 10 ns Transmit waveform – bipolar burst

150 V p-p max

6. **BASIS FOR SUBSTANTIAL EQUIVALENCE**

The Larsen & Toubro Limited SENORITA Colour Doppler Ultrasound System is substantially equivalent to the TETRAD 2300 E/U Ultrasound Imaging System with Color Flow Doppler Imaging, and to the Acuson Aspen System.





Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

FEB 27 2004

Larsen & Toubro Limited % Mr. Juergen Welte 510(k) Program Manager TUV Rheinland of North America 1279 Quarry Lane, Suite A PLEASANTON CA 94566

Re: K040409

Trade Name: Senorita Colour Doppler Ultrasound System

Regulation Number: 21 CFR 892.1550

Regulation Name: Ultrasonic pulsed doppler imaging system

Regulation Number: 21 CFR 892.1560

Regulation Name: Ultrasonic pulsed echo imaging system

Regulation Number: 21 CFR 892.1570

Regualtion Name: Diagnostic ultrasonic transducer

Regulatory Class: II

Product Code: 90 IYN, IYO, and IYX

Dated: January 26, 2004 Received: February 18, 2004

Dear Mr. Welte:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and we have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

This determination of substantial equivalence applies to the following transducers intended for use with the Senorita Colour Doppler Ultrasound System, as described in your premarket notification:

Transducer Model Number

TC-101-CP (2.5 – 5.0 MHz Curved Linear Array Transducer)
TC-110-CP (2.5 – 4.5 MHz Curved Linear Transducer)
TC-200-LP (6 – 9 MHz Linear Transducer)

TC-201-LP (5 – 8 MHz Linear Transducer) TC-400-EP (Curved Linear 5 – 9 MHz Transvaginal Transducer)

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register. Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This determination of substantial equivalence is granted on the condition that prior to shipping the first device, you submit a postclearance special report. This report should contain complete information, including acoustic output measurements based on production line devices, requested in Appendix G, (enclosed) of the Center's September 30, 1997 "Information for Manufacturers Seeking Marketing Clearance of Diagnostic Ultrasound Systems and Transducers." If the special report is incomplete or contains unacceptable values (e.g., acoustic output greater than approved levels), then the 510(k) clearance may not apply to the production units which as a result may be considered adulterated or misbranded.

The special report should reference the manufacturer's 510(k) number. It should be clearly and prominently marked "ADD-TO-FILE" and should be submitted in duplicate to:

Food and Drug Administration Center for Devices and Radiological Health Document Mail Center (HFZ-401) 9200 Corporate Boulevard Rockville, Maryland 20850

This letter will allow you to begin marketing your device as described in your premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus permits your device to proceed to market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801, please contact the Office of Compliance at (301) 594-4591. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or at (301) 443-6597 or at its Internet address "http://www.fda.gov/cdrh/dsmamain.html".

If you have any questions regarding the content of this letter, please contact Rodrigo C. Perez at (301) 594-1212.

Sincerely yours,

Manay C Brogdon
Nancy C. Brogdon

Director, Division of Reproductive, Abdominal and Radiological Devices

Office of Device Evaluation

Center for Devices and Radiological Health

Enclosures

System:	Larcon &	Toubro Limitad	SENIODITA COL	our Donnler L	Iltrasound System
Cystem.	ΔιδΕΙΙ α	TOUDIO LIMITEU	SENORHA COL	our pobbler c	ntiasouna system

Intended Use: Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:

		ng or fluid flow analysis of the human body as follows						
Clinical Applicat		_		Operation				
General	Specific	В	Ma	PWD⁵	CWD	Color	Combined	Other
(Track I Only)	(Tracks I & III)					Doppler ^c	Modes⁴	
Ophthalmic	Ophthalmic							
	Fetal	Ν	N	N		N	N	
]	Abdominal	N	N	N	Ī	N	N	
•	Intra-operative (Specify)							
	Intra-operative (Neuro)					j		
	Laparoscopic							
Fetal Imaging	Pediatric	Ν	N	N		N	N	
& Other	Small Organ (Thyroid,	Ν	N	N		N	N	
	Breast, Testes, etc.)						1	
	Neonatal Cephalic							
	Adult Cephalic				1			
	Trans-rectal		l					
	Trans-vaginal	N	N	N		N	N	
	Trans-urethral				l			
	Trans-esoph. (non-Card.)							
	Musculo-skel.	Ν	N	N		N	N	
	(Conventional)	<u> </u>		·				
	Musculo-skel. (Superficial)							
	Intra-luminal							
	Other (Specify)					<u> </u>		l
	Cardiac Adult	Ν	N	N		N	N	
Cardiac	Cardiac Pediatric	Ν	N	N		N	N	
	Trans-esoph. (Cardiac)							
	Other (Specify)					 		
Peripheral	Peripheral vessel	N	Ν	N		N	N	
Vessel	Other (Specify)							

N: subject of this submission.

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Concurrence of Center for Devices and Radiological Health, Office of Device Evaluation

Prescription Use (Per 21 CFR 801.109)

and Radiological Devices KOHOHOG

Division of Reproductive, Abdominal,

(Division Sign-Off)

^{*} Includes B+M.

^b Includes B+PWD.

^c Includes Color Doppler (CD); Amplitude Doppler (AD); B+CD; B+AD.

⁴B+PWD+CD; B+PWD+AD

System:	Larsen & Toubro Limited SE	NORITA	Colour D	oppier (Utrasound	d System	
Transducer:	TC-101-CP (2.5 – 5.0 MHz C	urved Line	ar Trans	ducer)			
Intended Use: [Diagnostic ultrasound imaging	or fluid flo	ow analy:	sis of th	e human	body as follows	<u>:</u>
Clinical Applicat	ion	Mode of	Operation	ก			
Conoral	Chapifia	D Ma	DIVIDA	CVAD	Color	Combined	▔

Clinical Applicat	tion	Mode of Operation						
General (Track I Only)	Specific (Tracks I & III)	В	Mª	PWD⁵	CWD	Color Doppler ^c	Combined Modes ^d	Other
Ophthalmic	Ophthalmic							
	Fetal	Ν	N	N		N	N	
ł	Abdominal	Ν	N.	N		N	N	
	Intra-operative (Specify)			Ţ				
i e	Intra-operative (Neuro)						<u> </u>	
	Laparoscopic				<u> </u>			
Fetal Imaging	Pediatric	И	N	N		N	N	
& Other	Small Organ (Thyroid,	1	ļ		1			
	Breast, Testes, etc.)	₽_			<u> </u>			
	Neonatal Cephalic	 	ļ		ļ	<u> </u>		
	Adult Cephalic	ــــــ	↓	ļ		ļ		ļ
	Trans-rectal	<u> </u>	 		<u> </u>			ļ
	Trans-vaginal		 	<u> </u>	-	_	-	
	Trans-urethral	!	 		1	<u> </u>		
	Trans-esoph. (non-Card.) Musculo-skel.	₩-			╂	ļ	-	ļ
	(Conventional)						İ	
	Musculo-skel. (Superficial)	╁	 	1	 	 	<u> </u>	
1	Intra-luminal	1	 		 	 		
	Other (Specify)	t						
	Cardiac Adult	Т				 		
Cardiac	Cardiac Pediatric	1			1	1		<u> </u>
	Trans-esoph. (Cardiac)	T		1	1			
	Other (Specify)	1						
Peripheral	Peripheral vessel	Т		Ī		1		
Vessel	Other (Specify)		<u> </u>	1	1	1		<u> </u>

N: subject of this submission.

Includes B+M.

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Concurrence of Center for Devices and Radiological Health, Office of Device Evaluation

Prescription Use (Per 21 CFR 801.109)

(Division Sign-Off) Division of Reproductive, Abdominal, and Radiological Devices 510(k) Number __

^b Includes B+PWD.

^a Includes Color Doppler (CD) ; Amplitude Doppler (AD); B+CD; B+AD. ^aB+PWD+CD; B+PWD+AD

System:	_Larsen & Toubro Limited Si	ENO	RITA	Colour D	oppler l	Jitrasound S	ystem	
Transducer:	TC-110-CP (2.5 – 4.5 MHz C	urve	d Line	ear Trans	ducer)			_
Intended Use: I	Diagnostic ultrasound imaging	or	fluid fl	ow analy	sis of th	e human boo	dy as follows:	
Clinical Applica		Мс	de of	Operation	מכ			
General	Specific	В	Ma	PWD⁵	CWD	Color	Combined	Other
(Track i Only)	(Tracks I & III)					Doppler°	Modes⁴	<u> </u>
Ophthalmic	Ophthalmic				l			-
	Fetal							
	Abdominal	\Box						
1	Intra-operative (Specify)							i
	Intra-operative (Neuro)	Γ						i
ì	Laparoscopic							i
Fetal Imaging	Pediatric							i
& Other	Small Organ (Thyroid,	1						
i	Breast, Testes, etc.)	<u>L</u>			<u> </u>			
	Neonatal Cephalic							Ì
	Adult Cephalic	<u> </u>	ļ <u>.</u>					
	Trans-rectal							
	Trans-vaginal	<u>L</u>						
	Trans-urethral	!			1			
	Trans-esoph. (non-Card.)	<u> </u>						
	Musculo-skel.				i			1
	(Conventional)	ļ			ļ. <u> </u>			
	Musculo-skel. (Superficial)	ļ			<u> </u>	ļ	<u> </u>	
	Intra-luminal							
	Other (Specify)							
0	Cardiac Adult	N	N	N		N	N	
Cardiac	Cardiac Pediatric	N	N	N		N	N	
	Trans-esoph. (Cardiac)					<u> </u>		
	Other (Specify)							<u> </u>
Peripheral	Peripheral vessel							
Vessel	Other (Specify)							
N: subject of the	s submission							

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Concurrence of Center for Devices and Radiological Health, Office of Device Evaluation Y = Yes, intended for this mode/use combination.

Gresenption live (per 21 CFR 801.109)

(Division Sign-Off) Division of Peproductive, Abdominal, and Parket great Devices bit iki yumber _

a Includes B+M.

bincludes B+PWD.

Includes Color Doppler (CD); Amplitude Doppler (AD); B+CD; B+AD.

⁴B+PWD+CD; B+PWD+AD

System:Larsen & Toubro Limited SENORITA Colour Doppler Ultrasound System	
Transducer: TC-200-LP (6 – 9 MHz Linear Transducer)	
Intended Use: Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows	

Clinical Applica	tion	Mode of Operation						
General (Track I Only)	Specific (Tracks I & III)	В	Mª	PWD⁵	CWD	Color Doppler ^c	Combined Modes ^d	Other
Ophthalmic	Ophthalmic							
	Fetal	Ν	N	N		N	N	
	Abdominal	Ν	N	N		N	N	
	Intra-operative (Specify)	Γ						
	Intra-operative (Neuro)						·	
	Laparoscopic						1	
Fetal Imaging	Pediatric	Ν	N	N		N	N	
& Other	Small Organ (Thyroid, Breast, Testes, etc.)	N	N	N		N	N	
	Neonatal Cephalic							
	Adult Cephalic							
	Trans-rectal					1		
	Trans-vaginal]		l		
	Trans-urethral				1			
	Trans-esoph. (non-Card.)							
	Musculo-skel. (Conventional)	N	N	N		N	N	
	Musculo-skel. (Superficial)					1		
,	Intra-luminal							
	Other (Specify)							
	Cardiac Adult	Ī						
Cardiac	Cardiac Pediatric	Г			1			
	Trans-esoph. (Cardiac)						1	
	Other (Specify)							
Peripheral	Peripheral vessel	N	N	N		N	N	
Vessel	Other (Specify)	T		<u> </u>				'''-

N: subject of this submission.

a Includes B+M.

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Concurrence of Center for Devices and Radiological Health, Office of Device Evaluation

Prescription Use (Per 21 CFR 801.109)

(Division Sign-Off)
Division of Reproductive, Abdominal, and Radiological Devices
510(k) Number

Includes B+PWD.

Includes Color Doppler (CD); Amplitude Doppler (AD); B+CD; B+AD.

^dB+PWD+CD; B+PWD+AD

System:	_Larsen & T	oubro Limited	SENORITA	Colour Doppler	Ultrasound	System
Transducer:	TC-201-LP (5 - 8 MHz Lin	ear Transduc	cer)		-

Intended Use: Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:

Specific	Mode of Operation						
(Tracks I & III)	В	Mª	PWD,	CWD	Color Doppler ^c	Combined Modes ^d	Other
		-	1	<u> </u>	Боррісі	Modes	
``	!			 	1	1	<u> </u>
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	Ν	N	N		N	N	1
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		<u> </u>	l		Ì		
Cardiac Pediatric							
Trans-esoph. (Cardiac)							
Other (Specify)				1			1
Peripheral vessel	Ν	N	N		N	N	
	T_	<u> </u>	1		<u> </u>	 	
	Ophthalmic Fetal Abdominal Intra-operative (Specify) Intra-operative (Neuro) Laparoscopic Pediatric Small Organ (Thyroid, Breast, Testes, etc.) Neonatal Cephalic Adult Cephalic Trans-rectal Trans-vaginal Trans-urethral Trans-esoph. (non-Card.) Musculo-skel. (Superficial) Intra-luminal Other (Specify) Cardiac Adult Cardiac Pediatric Trans-esoph. (Cardiac) Other (Specify)	Ophthalmic Fetal N Abdominal N Intra-operative (Specify) Intra-operative (Neuro) Laparoscopic Pediatric N Small Organ (Thyroid, Breast, Testes, etc.) Neonatal Cephalic Adult Cephalic Trans-rectal Trans-vaginal Trans-urethral Trans-urethral Trans-esoph. (non-Card.) Musculo-skel. (Superficial) Intra-luminal Other (Specify) Cardiac Adult Cardiac Pediatric Trans-esoph. (Cardiac) Other (Specify) Peripheral vessel N Other (Specify)	Ophthalmic Fetal N N N Abdominal N N N Intra-operative (Specify) Intra-operative (Neuro) Laparoscopic Pediatric N N N Small Organ (Thyroid, Breast, Testes, etc.) Neonatal Cephalic Adult Cephalic Trans-rectal Trans-vaginal Trans-urethral Trans-urethral Trans-esoph. (non-Card.) Musculo-skel. (Superficial) Intra-luminal Other (Specify) Cardiac Adult Cardiac Pediatric Trans-esoph. (Cardiac) Other (Specify) Peripheral vessel N N Other (Specify)	Ophthalmic Retal N N N Abdominal N N N N Intra-operative (Specify) Intra-operative (Neuro) Intra-operative (Neuro)	Petal N N N N N N N N N N N N N N N N N N N	Ophthalmic N N N N N N N N N N N N N N N N N N N	Ophthalmic Fetal N

N: subject of this submission.
* Includes B+M.

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Concurrence of Center for Devices and Radiological Health, Office of Device Evaluation

Prescription Use (Per 21 CFR 801.109)

(Division Sign-Off) / Division of Reproductive, Abdominal, and Radiological Devices 510(k) Number ___

b Includes B+PWD. Includes Color Doppler (CD); Amplitude Doppler (AD); B+CD; B+AD.

^dB+PWD+CD; B+PWD+AD

System:	Larsen & Toubro Limited SENORITA Colour Doppler Ultrasound System
Transducer:	TC-400-EP (Curved Linear 5 – 9 MHz Transvaginal Transducer)
	Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:

Clinical Applica	tion			Operation				
General (Track I Only)	Specific (Tracks I & III)	В	Mª	PWD⁵	CMD	Color Doppler ^c	Combined Modes ^d	Other
Ophthalmic	Ophthalmic	T						
Fetal Imaging & Other	Fetal Abdominal Intra-operative (Specify) Intra-operative (Neuro) Laparoscopic Pediatric Small Organ (Thyroid, Breast, Testes, etc.) Neonatal Cephalic Adult Cephalic Trans-rectal Trans-rectal Trans-urethral Trans-urethral Trans-esoph. (non-Card.) Musculo-skel. (Conventional) Musculo-skel. (Superficial) Intra-luminal Other (Specify)	N	N .	N		N	N	
Cardiac	Cardiac Adult Cardiac Pediatric Trans-esoph. (Cardiac) Other (Specify)							
Peripheral Vessel	Peripheral vessel Other (Specify)							

N: subject of this submission.

a Includes B+M.

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Concurrence of Center for Devices and Radiological Health, Office of Device Evaluation

Prescription Use (Per 21 CFR 801,109)

(Division Sign-Off) () Division of Reproductive, Abdominal, and Radiological Devices 510(k) Number ___

^bIncludes B+PWD.

^c Includes Color Doppler (CD); Amplitude Doppler (AD); B+CD; B+AD. ^dB+PWD+CD; B+PWD+AD